SHIPING LIU, Université de Sherbrooke, 2500 Boul. Université, Sherbrooke, Québec *The Auslander–Reiten theory in a triangulated category*

A common subject of study in algebraic geometry, algebraic topology and the representation theory of finite dimensional algebras is the derived category of an abelian category, which is naturally equipped with the structure of a triangulated category. If a triangulated category admits a Serre functor, then it has Auslander–Reiten triangles. In this case, one can define the Auslander–Reiten quiver. The purpose of this talk is to describe the shapes of the connected components of the Auslander–Reiten quiver of such a triangulated category.